

**To:** Schmittdiel, Paula[Schmittdiel.Paula@epa.gov]; Way, Steven[way.steven@epa.gov]; Brent Lewis (Brent\_Lewis@blm.gov)[Brent\_Lewis@blm.gov]  
**From:** Wall, Dan  
**Sent:** Thur 8/21/2014 1:13:04 PM  
**Subject:** RE: Request for mine water samples

The link doesn't really say anything so its hard to have an opinion on this. Is there more information? Is this for mining the AMD or water treatment? Is it more effective (less sludge) than addition of conventional bases?

I do recommend that if we send a sample, we don't pack it in vermiculite.

**From:** Schmittdiel, Paula  
**Sent:** Wednesday, August 20, 2014 2:02 PM  
**To:** Way, Steven; Wall, Dan; Brent Lewis (Brent\_Lewis@blm.gov)  
**Subject:** FW: Request for mine water samples

Hey guys – Please read the email trail below from EPA-HQ and see if you think we should “nominate” the Upper Animas for this. I'd rather not say anything to ARSG until we get a better idea from HQ & Montgomery Chemical as to whether or not this site could participate.

Paula Schmittdiel

Remedial Project Manager

U.S. Environmental Protection Agency

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Denver, CO 80202

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**From:** Hanley, Jim  
**Sent:** Wednesday, August 20, 2014 12:14 PM  
**To:** Costanzi, Frances; Schmitt diel, Paula; Sims, Leslie; Kiefer, Linda; Progeess, Christina; Hernandez, Kathryn; Fiedler, Kerri  
**Cc:** Christensen, Stanley; Wharton, Steve; Stites, Rob  
**Subject:** FW: Request for mine water samples

Forwarding Shahid's original solicitation for MIW samples for an innovative treatment technology trial. Respond to Shahid if you are interested.

The patented process utilizes **BoroMet 1240** is a stable aqueous solution of sodium borohydride ( $\text{NaBH}_4$ ) and caustic soda (sodium hydroxide,  $\text{NaOH}$ ), used by the printed circuit board, photo processing and metal plating industries to reduce and recover heavy and precious metals from chelated wastewater streams.  $\text{NaBH}_4$  has proven to be very effective in the recovery of copper, nickel, silver, gold, platinum and palladium from various chelated aqueous process and wastewater streams for both environmental and economic reasons.

See [this link](#) if you are interested in knowing more and don't have time for their power point slides.

**From:** Mahmud, Shahid

**Sent:** Wednesday, August 20, 2014 10:06 AM

**To:** Moreen, Ed; Riley, Gary; Hillenbrand, John; Jenkins, Joy; Hanley, Jim; Carr, Lofton; Baumgarten, Gary; Tomten, Dave

**Subject:** FW: Request for mine water samples

Hi folks,

I am following up on my message I send back in May requesting mine water samples for Montgomery Chemicals. The company has approached OSWER and is seeking support in getting mine influenced water samples to prove out their innovative technology. I would really appreciate you getting back directly to Jim Clements, if you are interested. Please cc me on any correspondence.

Jim Clements  
Director of Business Development  
Montgomery Chemicals  
cell: 603 502 4015  
[jclements@montchem.com](mailto:jclements@montchem.com)

Thanks!

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Hi folks,

I got this message below from Jim Clements at Montgomery Chemicals requesting mine water samples from hardrock mine sites so that he can run them through their treatment process to demonstrate the effectiveness of Montgomery Chemical's treatment technology. Their technology has been very effective in treating mine waters at coal mines in Pennsylvania and West Virginia and they want to determine/demonstrate if their technology can effectively address hardrock mine waters. Three representatives from this company came in to give a

presentation (attached) of their technology last year to the Technology Innovation and Field Services Division Director in Headquarters and some NMT members. They noted that they would get back to us and are now asking if folks are interested in volunteering to send samples to this company. Please see Jim Clements message below on volume, shipping procedures and location. Let me know if you are interested so that I can let Jim know. Thanks!

Shahid Mahmud

Team Leader, EPA Abandoned Mine Lands Team

703-603-8789

[mahmud.shahid@epa.gov](mailto:mahmud.shahid@epa.gov)

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Hi Shahid.

It would be great to get some 1 quart or so samples of water. Water is not a hazardous material, so anyway someone wants to ship it is fine, providing they pack it in an absorbant in case it leaks. A lot of folks use water or soda bottles and put them into a bag of vermiculate or kitty litter.

Besides the iron, I'm very interested in seeing how we can remove the 'odd' metals. We've been very fortunate with Manganese, and can probably remove the

strontium type metals. I know we can do nickel...it's just a matter of seeing if any nickel or copper is there.

My shipping address is

Montgomery Chemical,

c/o Jim Clements

319 Middle Rd.

Brentwood NH 03833.